

MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY JAIPUR



**In collaboration with
Western Norway University of Applied Sciences**



**The UNified International Conference on Emerging Technologies
in Cyber-Physical Systems and Industrial AI**

UNified 2024
NOVEMBER 26-28, 2024
<https://unified2024.netlify.app/>

UNified 2024



About UNified 2024

The 3-day event being organized by Dept. of Mech. Engg., MNIT Jaipur will provide the ideal opportunity for researchers, industrialists, and equipment manufacturers/suppliers to meet, share ideas and learn about the latest scientific and technological advances in all of the listed fields, along with the future directions that each of the fields is taking.

Participating Members

- ▶ INTPART-UTFORSK Project on Cyber-physical Systems (Professor Maneesh Singh, The Western Norway University of Applied Sciences, Norway)
- ▶ IncoME conference (Professor Jyoti Sinha, University of Manchester, U.K.)
- ▶ TEPEN Conference (Professor Andrew Ball, University of Huddersfield, U.K.; Professor Fengshou Gu, University of Huddersfield, U.K.)
- ▶ DAMAS Conference (Professor Huajiang Ouyang, University of Liverpool, U.K.; Prof. Carol Featherson, Cardiff University, U.K.)

Collaborating Conferences



IncoMe

The International Conference on Maintenance Engineering

TEPEN

The Efficiency and Performance Engineering Network Conferences



DAMAS

International Conference on Damage Assessment Structures

UNified 2024

Key Dates

Abstract acceptance notification. Two weeks after submission

- 15/07/24: Abstract submission deadline
- 30/07/2024: Full paper submission deadline.
- 25/08/2024: Paper acceptance notification
- 31/08/2024: Early registration deadline
- 26-28/11/2024: Conference

Paper Submission

CMT link

<https://tinyurl.com/24etvsz4>

UNified 2024

Committees

Patron

Prof. N.P. Padhy

Director, Malaviya National Institute of Technology Jaipur, India

Conference Chair

Prof. Maneesh Singh

Western Norway University of Applied Sciences, Bergen, Norway

Committees

Conference Co-Chairs

- **Dr. Gunjan Soni**
Malaviya National Institute of Technology Jaipur
- **Prof. Jyoti Sinha**
University of Manchester, U.K.
- **Prof. Andrew Ball**
University of Huddersfield, U.K.
- **Prof. Carol Featherston**
Cardiff University, U.K.
- **Prof. Fengshou Gu**
University of Huddersfield, U.K.
- **Prof. Huajiang Ouyang**
University of Liverpool, U.K.

Local Organizing Committee from Dept. of Mech. Engg. at MNIT Jaipur

- **Prof. Rakesh Jain**
General Chair
- **Prof. M.L. Mittal**
General Chair
- **Dr. Gunjan Soni**
Organizing Secretary
- **Dr. Nikhil Sharma**
Organizing Secretary
- **Dr. Naresh Raghuvanshi**
Joint Secretary
- **Dr. Gulab Pamnani**
Joint Secretary

Registration Fees

- 15% Discount in Early bird registration
- Indian research scholars – Rs. 4000/-
- International research scholars - \$200
- Indian academicians – Rs. 7000/-
- International academicians - \$350
- In Hybrid Mode (Only for International Participants) - \$100
- Industry participants from India– Rs. 10000/-
- Industry participants from outside India – \$500

Publication

Accepted papers will be published in Springer series or submitted to special issues of other SCOPUS indexed journals.

Past publication

<https://link.springer.com/book/9783031494123>

Scientific Committee

- Dr. Neeraj Goyal, IIT Kharagpur, India
- Prof. Arvind Keprate, Oslomet, Norway
- Prof. OP Yadav, NCAT, USA
- Dr. Kassandra.A.Papadopoulou,he University of Manchester, UK
- Prof. Khanindra Pathak ,IIT Kharagpur, India
- Prof. Z.K. Peng,Shanghai Jiao Tong University, China
- Dr. Amir Rahbarimanesh,The University of Manchester, UK
- Prof. A.S. Sekhar,IIT Palakkad, India
- Prof. Rajiv Tiwari,IIT Guwahati, India
- Prof. Mayank Tiwari,IIT Patna, India
- Prof. Jiawei Xiang,Wenzhou University, China
- Prof. Radoslaw Zimroz,Wroclaw University of Technology, Poland
- Dr. Monica Tanwar, IIT Jodhpur
- Dr. Signe Riemer-Sorensen,SINTEF AS,
- Dr. Deepti Mishra, Norwegian University of Science and Technology
- Dr. Chetan Kulkarni,US-NASA Ames Research Center, USA

Scientific Committee

- Prof. Basim Al-Najjar, Linnaeus University, Sweden
- Prof. David Baglee, University of Sunderland, UK
- Prof. Mohamed Ben-Daya, American University of Sharjah, UAE
- Prof. A.K. Darpe, IIT Delhi, India
- Prof. Filipe Didelet, Polytechnic Institute of Setubal, Portugal
- Prof. Luís Andrade, Ferreira University of Porto, Portugal
- Prof. Mangey Ram, Graphic Era (Deemed to be university), Dehradun, India
- Prof. F. Gu, University of Huddersfield, UK
- Dr. Wolfgang Hahn, Babcock International Group, UK
- Prof. S.P. Harsha, IIT Roorkee, India
- Dr. Soumendu Jana NAL, Bangluru, India
- Prof. Lin Jing Beihang University, Beijing, China
- Mr N.S. Joshi, Bhabha Atomic Research Centre, India
- Prof. Ramin Karim, Luleå University of Technology, Sweden
- Dr. Ravdeep Kour, Luleå University of Technology, Sweden
- Prof. Anil Kumar, Wenzhou University, China
- Prof. Rajesh Kumar Sant, Longowal Institute of Engineering & Technology, Longowal, INDIA
- Dr. Mohit Lal, NIT Rourkela, India
- Mrs. María del Carmen García Lizárraga Lawrence Berkeley National Laboratory, USA
- Prof. Tore Markeset, University of Stavanger, Stavanger, Norway
- Prof. Xie Min, City University of Hong Kong, Hong Kong
- Prof. Amiya Ranjan Mohanty, IIT Kharagpur, India
- Prof. C. 'Nat' Nataraj, Villanova University, USA
- Prof. Raghuvir Pai, Manipal Academy of Higher Education, India

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About conference

The combined conference being organized which we are informally calling “UNified 2024” will bring together engineers, scientists and technologists, researchers, developers, and practitioners who work in the area of:

1. Sensors and Measurement Systems
2. Condition Monitoring and Predictive Maintenance
3. Industrial Internet of Things (IIoT)
4. Cyber physical systems (CPS)
5. Artificial Intelligence / Machine Learning in Maintenance and Production Environment
6. Government Policies

Scope



The conference covers a broad area with multi-disciplinary interests in the fields of plant maintenance, asset management, reliability, condition monitoring, artificial intelligence and related areas, ranging from fundamental research to real-world applications.



The conference welcomes the submission of papers in the nature of original research, technical review and tutorial from the following, but not limited to, cyber physical systems applications in following areas.

Areas

- Condition Monitoring and Machine Health Monitoring with CPS
- Predictive Maintenance with CPS
- Electrical Vehicle Energy Management with CPS
- Health, Safety & Carbon Neutralization with CPS
- Industrial Internet of Things (IIoT)
- Non-Destructive Testing with CPS
- Prognostics and Health Management
- Reliability, Availability, Maintainability & Safety
- Sensors, Instrumentation and Measurement Systems
- Structural Integrity with CPS
- Vibro-acoustics Monitoring with CPS
- Cyber-Physical Security
- Integration and Interoperability
- Human-Machine Interaction
- Real-Time Control of CPS
- Distributed Systems and Edge Computing



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Malaviya National Institute of Technology Jaipur
Department of Mechanical Engineering



Western Norway University of Applied Sciences



About MNIT Jaipur

The Institute was jointly established in 1963 as Malaviya Regional Engineering College Jaipur by the Government of India and the Government of Rajasthan. Subsequently, on 26 June, 2002, the college was given the status of National Institute of Technology. On 15 August 2007, it was recognized as the Institute of National Importance through an Act of Parliament. The Institute is fully funded by the Ministry of Education (Shiksha Mantralaya), Government of India

CONTACT US

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